

WE CLAIM:

- 1           1.       A video recording system to record an external video data stream for a  
2 video program segment selected using an electronic program guide, the video recording  
3 system comprising:  
4               a user interface that receives user input;  
5               a video input interface that receives the external video data stream for the  
6 selected video program segment;  
7               an isochronous interface connectable to an external rotating storage  
8 drive; and  
9               a video data management system that:  
10              uses the electronic program guide to select the video program segment in  
11 response to the user input;  
12              recognizes connection of the external rotating storage drive to the video  
13 recording system and subsequently identifies the external rotating storage drive  
14 as available for video data storage;  
15              uses the external video data stream for the video program segment to  
16 provide streaming video data; and  
17              routes at least a portion of the streaming video data to the external  
18 rotating storage drive via the isochronous interface in order to record the  
19 external video data stream for the video program segment.
- 1           2.       The video recording system of Claim 1 further comprising a set-top box  
2 that receives the external video data stream from a multiple-service operator.
- 1           3.       The video recording system of Claim 2, wherein the set-top box  
2 comprises an internal rotating storage drive.
- 1           4.       The video recording system of Claim 3, wherein the internal rotating  
2 storage drive is an internal hard disk drive comprising an IDE interface.

1           5.       The video recording system of Claim 1 further comprising a personal  
2 video recorder that receives the external video data stream.

1           6.       The video recording system of Claim 5, wherein the personal video  
2 recorder comprises an internal rotating storage drive.

1           7.       The video recording system of Claim 6, wherein the internal rotating  
2 storage drive is an internal hard disk drive comprising an IDE interface.

1           8.       The video recording system of Claim 1, wherein the video data  
2 management system automatically recognizes connection of the external rotating  
3 storage drive to the video recording system.

1           9.       The video recording system of Claim 1, wherein the external rotating  
2 storage drive is an external hard disk drive.

1           10.      The video recording system of Claim 1, wherein the isochronous  
2 interface is compatible with the IEEE 1394 standard.

1           11.      The video recording system of Claim 1, wherein the external video data  
2 stream and streaming video data include video data and audio data.

1           12.      The video recording system of Claim 1, wherein the video data  
2 management system further comprises a video data encoder that encodes at least a  
3 portion of the streaming video data.

1           13.      The video recording system of Claim 1, wherein the video data  
2 management system further comprises a video data encrypter that encrypts at least a  
3 portion of the streaming video data.

[illegible]

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- 3 storage capacity of the internal rotating storage drive is insufficient to accommodate the
- 4 anticipated size of the portion of the streaming video data to be recorded.

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